# README

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## Contents

# 1  Setup the app

Just run `docker-compose up`.

# 2  Design decisions

## 2.1  Data

For consistency reasons since `Node.js` was an imposed choice for the back-end, and to not impose to my reviewer to install another language, I would have chosen to load the data in `Javascript`. But since I was allowed to use Docker this was not a problem anymore. So since time was limited, I choose Python to get the data in the database as it was the language I was more confident with.

## 2.2  Database

Since the `MySQL` official Docker image was more than 100MB, I thought it was overkill for a simple application like this one, so I eliminated `MySQL`. I surprisingly found a lean `alpine` version of `PostgreSQL` which was less than 30MB, so I hesitated between `PostgreSQL` and `SQLite`. At the end I chose to go with `PostgreSQL` because it was simpler to use with Docker. Without Docker I would have chosen to go with `SQLite`. I also chose to go with the `SQLAlchemy` ORM in case I had some problem down the road so that it would be easy to switch to another database in case (and also because I wanted to learn it).

## 2.3  Front-end

Since I have a really small experience with front-end frameworks, and since time was limited, I choose the one I read it had the more gentle learning curve, e.g. `Vue.js`. Without the time limiting constraint, I would have chosen React.

# 3  Time spent

| | |
|---|---|
| Design decisions | 2h |
| Pulling data from PubMed | 2h |
| Database design | 6h |

# 4  FDA 21 CFR 820.30